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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,566	02/24/2004	Michael D. Sawyer	P1984US00	9829

32710 7590 04/20/2005

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Alexandria, VA 22314-1437

EXAMINER
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DUONG, HUNG V

ART UNIT	PAPER NUMBER
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2835

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/785,566

Applicant(s)

SAWYER, MICHAEL D.

Examiner

Hung v. Duong

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2/24/2004.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_

**HUNG VAN DUONG**  
**PRIMARY EXAMINER**

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 7-9, 11-13, 15-17, 19-21, 23, 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu (US Pat. 5,448,495).

Regarding claims 1-2, 7-9, 11-13 15-17, 19-21, 23, 25-26 Liu discloses a system comprising: a portable computer chassis 201 having an internal speaker 22; and openings in the chassis 201 from which sound from the speaker 22 can emanate, wherein the openings allow heat generated by the system to escape wherein the internal speaker 22 is located at least a minimum distance away from the openings, separate air intake vents located on the chassis. One ventilation fans 24 located between the air intake vents and heat cooling components located inside the chassis 201. A portable computer system comprising: a portable computer chassis 201 having an internal speaker 22; a heat generating device 20 disposed within the chassis 201; a first opening in the chassis spaced apart from the internal speaker, wherein the opening facilitates emanation of sound outside the computer chassis 201, and wherein the first opening further facilitates flow of air between the internal speaker 22 and the first

Art Unit: 2835

opening; and a second opening in the chassis 201 positioned to facilitate airflow between the second opening along a path past heat generated by the heat generating device 20 within the chassis 201 and the first opening to remove heat from within the computer chassis 201 wherein the first opening comprises a grill.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 3-6, 10, 14, 18, 22, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu (US Pat. 5,448,495) in view of Horner et al (US Pat. 6,671,171).

Regarding claims 3-6, 10 18, 22, 24 Liu discloses all the subject matter of the claimed invention except for two internal speakers and openings proximate to each other wherein the openings are located on a front surface of the portable computer. However Horner et al disclose two internal speakers and openings proximate to each other wherein the openings are located on a front surface of the portable computer (see figure 1). Therefore, it would be obvious to one of ordinary skill in the art to modify two internal speakers and openings proximate to each other wherein the openings are located on a front surface of the portable computer of Horner into Liu's computer system in order to improve the sound system.

Regarding claim 14, Horner et al disclose a third opening and further speaker positioned proximate the third opening to promote airflow between the third opening and further speaker (see figure 1). Therefore, it would be obvious to one of ordinary skill in the art to modify a third opening and further speaker positioned proximate the third opening to promote airflow between the third opening and further speaker of Horner into Liu' s computer system in order to improve the sound system.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Burleson et al (US 2002/0057811) teach apparatus using cooling spaces as speaker chambers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung v Duong whose telephone number is 571-272-2041. The examiner can normally be reached on M-F from 8:30 to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Field can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

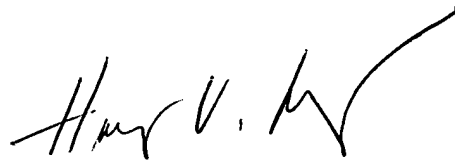
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

Art Unit: 2835

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HVD

4/14/05

A handwritten signature in black ink, appearing to read 'Hung V. Duong', with a stylized flourish at the end.

Hung Duong  
Primary Examiner.